_	Application No.	Applicant(s)
Notice of Allowability	09/966,410	TRAJKOVIC ET AL.
	Examiner	Art Unit
	Anand Bhatnagar	2623
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.  1.		
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s)		
1. Notice of References Cited (PTO-892)		Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	te .
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date</li> </ol>		nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.  Other	

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1. Applicant's amendment filed on 09/16/05 has been entered and made of record.

- 2. Applicant has amended claims 1, 2, 4, 17, and 18. Currently claims 1-25 are pending.
- 3. Claims 1-25 are allowed.
- 4. Applicant's arguments, see remarks pages 14-17, filed 09/16/05, with respect to claims 1, 2, 17, and 18 have been fully considered and are persuasive. The 35USC112 rejection of claims 1, 2, 17, and 18, the 35USC 102 rejection of claims 1, 2, 17, and 18, and the 35USC 103(a) rejection of claims 1 and 3 have been withdrawn.
- 5. The following is an examiner's statement of reasons for allowance: The closest prior art of Liu et al. (Robust Head Motion Computation by Taking Advantage of Physical Properties," Proc. Workshop On Human Motion,

  December 2000, pages 73-77) discloses to detect the head motion/rotation/translational in a sequence of images. Regarding claims 4, 10, and 20: Liu et al. does not teach the feature of "determining rotation matrix R that maps points Pk to Fk for characterizing a head pose, said points F1,F2,F3,F4 representing three-dimensional (3-D) coordinates of the respective four points of a reference, frontal view of said facial image, and Pk is the three-dimensional (3-D) coordinates of an arbitrary point where Pi =[Xi Yi Zi], said mapping governed according to the relation:

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That, in combination with the other respective claim limitations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anand Bhatnagar whose telephone number is (571) 272-7416, whose supervisor is Jingge Wu whose number is (571) 272-7429, Central fax is 571-273-8300, and Tech center 2600 customer service office number is 703-306-0377.

Anand Bhatnagar

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October 17, 2005

SAMIN AHMED
PRIMARY EXAMINER